

# Easy package development

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**HELLO**

my name is

**Hadley**

# `courses.had.co.nz`

Keep the slides open in your  
browser so you can copy  
and paste the code

# `github.com/hadley/devtools/wiki`

# Caveats

- Opinionated advice – not everyone agrees that this is the right way to build packages.
- Don't look at ggplot2
- This class only scratches the surface – many more details to learn.

# Outline

- Package basics: devtools
- Documentation: roxygen2
- Testing: testthat
- Releasing your package: devtools

# Getting started

```
# Check that you're ready to go

library(devtools)
has_devel()

# If not:
#   * on windows: install Rtools
#   * on mac: install xcode
#   * on linux: install gcc, make

library(RCurl)
library(testthat)
library(roxygen2)
# if not: install.packages("...")
```

# Working directory

**Terminal** (linux or mac): the working directory is the directory you're in when you start R

**Windows:** File | Change dir.

**Mac:** ⌘-D

**Rstudio:** Tools | Change working dir...



# Working directory

Recommendation: set the working directory to the directory from the downloaded zip file.

Download all other packages into this directory.

# Learn from others

*If you only  
remember one  
thing:*

Read the source of other packages!

<https://github.com/hadley/plyr>

<https://github.com/hadley/stringr>

<https://github.com/hadley/devtools>

<https://github.com/hadley/lubridate>

<https://github.com/hadley/evaluate>

<https://github.com/hadley/reshape>

hadley/plyr - GitHub

GitHub, Inc. [US] https://github.com/hadley/plyr

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hadley / plyr

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A R package for splitting, applying and combining large problems into simpler problems — [Read more](#)  
[plyr.had.co.nz](http://plyr.had.co.nz)

Clone in Mac | **ZIP** | SSH | HTTP | Git Read-Only | `git@github.com:hadley/plyr.git` | Read+Write access

Files | Commits | Branches 8 | Tags 19 | Downloads | Current branch: master

Latest commit to the **master** branch

Fix join bug when joining based on many columns

hadley authored October 12, 2011 | commit `b33b7f9d4d`

plyr /

name	age	message	history
<a href="#">R/</a>	October 12, 2011	Fix join bug when joining based on many columns [hadley]	
<a href="#">benchmark/</a>	July 29, 2010	If possible, call lapply directly from lply [hadley]	
<a href="#">data/</a>	March 04, 2011	Recompress data files to reduce space [hadley]	
<a href="#">inst/</a>	October 12, 2011	Fix join bug when joining based on many columns [hadley]	
<a href="#">man-roxygen/</a>	July 29, 2011	Back out ill-considered drop change - breaks too m... [hadley]	
<a href="#">man/</a>	July 29, 2011	Fix link that shouldn't exist [hadley]	
<a href="#">src/</a>	July 21, 2010	Replace for loop with custom C code [hadley]	
<a href="#">tests/</a>	September 06, 2010	Use new testing function [hadley]	